IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Adnan M.M. Mjalli et al.
Ser. No.	:	10/777,471
Filing Date	:	February 2, 2004
For	:	SUBSTITUTED AZOLE DERIVATIVES AS THERAPEUTIC AGENTS
Examiner	:	Unknown
Art Unit	:	1615
Atty. Docket	:	TTP 2002-07

Mail Stop: **AMENDMENT**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08a. One copy of each reference, other than, US Patents or US Patent Publications, is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

☒ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my

knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97 (e) (2).

☐ c. Please debit Deposit Account No. 50-3216 in the amount of $_____ in payment of the fee under 37 C.F.R. § 1.17(p). Two duplicate copies of this paper are attached.

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Respectfully submitted,

Date: Nov. 15, 2004

Samuel B. Rollins
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11-16-04

IFW

EXPRESS MAIL CERTIFICATE

"Express Mail" Label No.	:	EV 507590115 US
Serial No.	:	10/777,~~421~~ 471
Applicant(s)	:	Adnan M.M. Mjalli et al.
Filing Date	:	February 2, 2004
Title:	:	SUBSTITUTED AZOLE DERIVATIVES AS THERAPEUTIC AGENTS
Examiner	:	Unknown
Group Art Unit	:	1615
Type of Document(s)	:	Express Mail Certificate; Transmittal Form; Information Disclosure Statement; PTO/SB/08A; and Return Postcard

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Christine Heerschap (signature)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission: 26

Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

ENCLOSURES *(check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
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Firm			
Signature	Samuel B. Rollins		
Printed Name	Samuel B. Rollins		
Date	Nov. 15, 2004	Reg. No.	52,180

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 20

Complete if Known	
Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number: Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	TR-190	US- 20020002199	01/03/2002	Jeppesen et al.	
	TR-191	US- 20020009762	01/24/2002	Flint et al.	
	TR-192	US- 20020035137	03/21/2002	Liu et al.	
	TR-193	US- 20020072516	06/13/2002	Liu et al.	
	TR-194	US- 20020099073	07/25/2002	Andersen et al.	
	TR-195	US- 20020138862	09/26/2002	Kennedy et al.	
	TR-196	US- 20020169157	11/14/2002	Liu et al.	
	TR-197	US- 20020183518	12/05/2002	Mjalli et al.	
	TR-198	US- 20030064979	04/03/2003	Hansen et al.	
	TR-199	US- 20030069267	04/10/2003	Moller et al.	
	TR-200	US- 20030108883	06/12/2003	Rondinone et al.	
	TR-201	US- 20030114703	01/19/03	Leblanc et al.	
	TR-202	US- 20030120073	06/26/2003	Seto et al.	
	TR-203	US- 20030144338	07/31/2003	Matsumoto et al.	
	TR-204	US- 20030153756	08/14/2003	Guertin et al.	
	TR-205	US- 20030170660	09/11/2003	Sondergaard et al.	
	TR-206	US- 20030180827	09/25/2003	Welte et al.	
	TR-207	US- 20030130335	07/10/2003	Mjalli et al.	
	TR-208	US- 20030215899	11/20/2003	Meng et al.	
	TR-209	US- 20030217379	11/20/2003	Kennedy et al.	
	TR-210	US-20030194745	10/16/2003	McDowell et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

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Sheet 2 of 20

Complete if Known	
Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

U.S. PATENT DOCUMENTS

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	TR-211	US- 20040009946	01/15/2004	Lewis et al.	
	TR-212	US- 20040009956	01/15/2004	Pei et al.	
	TR-213	US- 20040014778	01/22/2004	Mjalli et al.	
	TR-214	US- 20040023974	02/05/2004	Coppola et al.	
	TR-215	US- 20040121353	06/24/2004	Lewis et al.	
	TR-216	US- 20040127570	07/01/2004	Mayer et al.	
	TR-217	US- 20040138218	07/15/2004	Pallen et al.	
	TR-218	US- 20040147596	07/29/2004	Barr et al.	
	TR-219	US- 20040147755	07/29/2004	Malamas et al.	
	TR-220	US- 20040167188	08/26/2004	Zhili et al.	
	TR-221	US- 20040176330	09/09/2004	Dufresne et al.	

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Sheet 3 of 20

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Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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	TR-163	US- 5,348,969	09/20/1994	Romine et al	
	TR-164	US- 6,169,087	01/02/2001	Andersen et al.	
	TR-165	US- 6,174,874	01/16/2001	Wang et al.	
	TR-166	US- 6,214,564	04/10/2001	Rodan et al.	
	TR-167	US- 6,238,902	05/29/2001	Cheng et al.	
	TR-168	US- 6,262,069	01/17/2001	Crew et al.	
	TR-169	US- 6,388,076	05/14/2002	Mjalli et al.	
	TR-170	US- 6,365,592	04/02/2002	Leblanc et al.	
	TR-171	US- 6,410,556	06/25/2002	Andersen et al.	
	TR-172	US- 6,448,429	09/10/2002	Leblanc et al.	
	TR-173	US- 6,465,444	10/15/2002	Bayly et al.	
	TR-174	US- 6,472,545	10/29/2002	Liu et al.	
	TR-175	US- 6,486,141	11/26/2002	Lau et al.	
	TR-176	US- 6,486,142	11/26/2002	Leblanc et al.	
	TR-177	US- 6,498,151	12/24/2002	Li et al.	
	TR-178	US- 6,534,056	03/18/2003	Tromblay et al.	
	TR-179	US- 6,583,126	06/24/2003	Leblanc et al.	
	TR-180	US- 6,586,467	07/01/2003	Burgess et al.	
	TR-181	US- 6,596,772	07/22/2003	Huang et al.	
	TR-182	US- 6,605,753	08/12/2003	Kennedy et al.	

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Sheet 4 of 20

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Application Number	10/777,471
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	TR-183	US- 6,613,903	09/02/2003	Andersen et al.	
	TR-184	US- 6,627,767	09/30/2003	Liu et al.	
	TR-185	US- 6,699,896	03/02/2004	Malamas et al.	
	TR-186	US- 6,765,021	07/20/2004	Butera et al.	
	TR-187	US- 6,770,466	08/03/2004	Shi et al.	
	TR-188	US- 6,777,433	08/17/2004	Leblanc et al.	
	TR-189	US- 6,784,205	08/31/2004	Barr et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 20

Complete if Known	
Application Number	10/777,421 471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	TR-1	ANDERSEN HS, "2-(oxalylamino)-benzoic acid is a general, competitive inhibitor of protein-tyrosine phosphatases." The Journal of Biological Chemistry, 275:7101-7108 (2000)	
	TR-2	MURTHY VS, "3D-QSAR CoMFA and CoMSIA on Protein Tyrosine Phosphatase 1B Inhibitors" Bioorganic & Medicinal Chemistry, 10:2267-2282 (2002)	
	TR-3	MOK A, "A single nucleotide polymorphism in protein tyrosine phosphatase PTP-1B is associated with protection from diabetes or impaired glucose Tolerance in Oji-Cree" The Journal of Clinical Endocrinology & Metabolism, 87(2): 724-727 (2002)	
	TR-4	SHEN K, "Acquisition of a specific and potent PTP1B inhibitor from a novel combinatorial library and screening procedure." The Journal of Biological Chemistry, 276:47311-47319 (2001)	
	TR-5	COVIC L, "Activation and inhibition of G protein-coupled receptors by cell-penetrating membrane-tethered peptides." Proceedings of the National Academy of Sciences, 99:643-648 (2002)	
	TR-6	LIU DG, "Acylsulfonamide-containing PTP1B inhibitors designed to mimic an enzyme-bound water of hydration." Bioorganic & Medicinal Chemistry Letters, 13:3005-3007 (2003)	
	TR-7	WIESMANN C, "Allosteric inhibition of protein tyrosine phosphatase 1B" Nature Structural & Molecular Biology, 11:730-737 (2004)	
	TR-8	LI X, "Alpha,alpha-difluoro-beta-ketophosphonates as potent inhibitors of protein tyrosine phosphatase 1B." Bioorganic & Medicinal Chemistry Letters, 14:4301-4306 (2004)	
	TR-9	ARABACI G, "alpha-bromoacetophenone derivatives as neutral protein tyrosine phosphatase inhibitors: structure-Activity relationship." Bioorganic & Medicinal Chemistry Letters, 12:3047-3050 (2002)	
	TR-10	CHO KJ, "Alpha-lipoic acid decreases thiol reactivity of the insulin receptor and protein tyrosine phosphatase 1B in 3T3-L1 adipocytes." Biochemical Pharmacology, 66:849-858 (2003)	
	TR-11	AHMAD F, "Alterations in skeletal muscle protein-tyrosine phosphatase activity and expression in insulin-resistant human obesity and diabetes." Journal of Clinical Investigation, 100:449-458 (1997)	

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Sheet 6 of 20

Complete if Known	
Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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	TR-13	GUM RJ, "Antisense Protein Tyrosine Phosphatase 1B Reverses Activation of p38 Mitogen-Activated Protein Kinase in Liver of ob/ob Mice." Molecular Endocrinology, 17:1131-1143 (2003)	
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	TR-20	TAYLOR WP, "Charged with meaning: the structure and mechanism of phosphoprotein phosphatases." Chemistry & Biology, 2:713-718 (1995)	
	TR-21	PATANKAR SJ, "Classification of Inhibitors of Protein Tyrosine Phosphatase 1B Using Molecular Structure Based Descriptors " Journal of Chemical Information and Computer Sciences, 43:885-899 (2003)	
	TR-22	SUN JP, "Crystal structure of PTP1B complexed with a potent and selective bidentate inhibitor." The Journal of Biological Chemistry, 278:12406-12414 (2003)	
	TR-23	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; retrieved from STN accession no. 62:29663 Database accession no. 1965:29663 RNs 805-66-3 and 810-22-0 abstract & PYL T ET AL: ANN., 1964, Page 679	
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Sheet 7 of 20

Complete if Known	
Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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	TR-34	PETERS GH, "Enzyme kinetic characterization of protein tyrosine phosphatases" Biochimie, 85:527-534 (2003)	
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Sheet 8 of 20

Complete if Known	
Application Number	10/777,~~481~~ 471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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Sheet 9 of 20

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Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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Sheet 10 of 20

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Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 11 of 20

Complete if Known	
Application Number	10/777,421 ~~X~~ 471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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	TR-70	URBANEK, "Potent Reversible Inhibitors of the Protein Tyrosien Phosphatase CD45" Journal of Medical Chemistry, 44: 1777-1793 (2001)	
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	TR-75	JOHNSON TO, "Protein tyrosine phosphatase 1B inhibitors for diabetes" Nature Reviews Drug Discovery, 1:696-709 (2002)	
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Sheet 12 of 20

Complete if Known	
Application Number	10/777,431
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 13 of 20

Complete if Known	
Application Number	10/777,421
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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	TR-95	HAJ FG, "Regulation of receptor tyrosine kinase signaling by protein tyrosine phosphatase-1B." The Journal of Biological Chemistry, 278:739-44 (2003)	
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Examiner Signature		Date Considered	

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Sheet 14 of 20

Complete if Known	
Application Number	10/777,481
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	TR-105	GROVES M, "Structural Basis for Inhibition of the Protein Tyrosine Phosphatase 1B by Phosphotyrosine Peptide Mimetics" Biochemistry, 37:17773-17783 (1998)	
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	TR-108	VERSEN LF, "Structure determination of T cell protein-tyrosine phosphatase." The Journal of Biological Chemistry, 277:19982-19990 (2002)	
	TR-109	JIA Z, "Structure of protein tyrosine phosphatase 1B in complex with inhibitors bearing two phosphotyrosine mimetics." Journal of Medicinal Chemistry, 44:4584-4594 (2001)	
	TR-110	IVERSEN LF, "Structure-based design of a low molecular weight, nonphosphorus, nonpeptide, and highly selective inhibitor of protein-tyrosine phosphatase 1B." The Journal of Biological Chemistry, 275:10300-10307 (2000)	
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	TR-112	SARMIENTO M, "Structure-based discovery of small molecule inhibitors targeted to protein tyrosine phosphatase 1B." Journal of Medicinal Chemistry, 43:146-155 (2000)	
	TR-113	WANG J, "Structure-based Prediction of Free Energy Changes of binding of PTP1B Inhibitors" Journal of Computer-Aided Molecular Design, 17:495-513 (2003)	
	TR-114	MCCAIN DF, "Suramin derivatives as inhibitors and activators of protein-tyrosine phosphatases." The Journal of Biological Chemistry, 279:14713-14725 (2004)	
	TR-115	LILJEBRIS C, "Synthesis and biological activity of a novel class of pyridazine analogues as non-competitive reversible inhibitors of protein tyrosine phosphatase 1B (PTP1B)." Bioorganic & Medicinal Chemistry, 10:3197-3212 (2002)	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 15 of 20

Complete if Known	
Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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	TR-129	RAGAB A, "The tyrosine phosphatase 1B regulates linker for activation of T-cell phosphorylation and platelet aggregation upon FcgammaRIIa cross-linking." The Journal of Biological Chemistry, 278:40923-40932 (2003)	

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Sheet 16 of 20

Complete if Known	
Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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	TR-130	ZABOLOTNY JM, "Transgenic Overexpression of Protein-tyrosine Phosphatase 1B in Muscle Causes Insulin Resistance, but Overexpression with Leukocyte Antigen-related Phosphatase Does Not Additively Impair Insulin Action." The Journal of Biological Chemistry, 279:24844-24851 (2004)	
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Sheet 17 of 20

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Application Number	10/777,471
Filing Date	02-04-04
First Named Inventor	Adnan M. M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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	TR-134	EP 01019364	06/09/04	Larsen et al.		

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Sheet 18 of 20

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Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unkown
Attorney Docket Number	TTP 2002-07

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	TR-135	WO 97/40017	10/30/97	Anderson et al.		
	TR-136	WO 99/02505	01/21/99	LaCrampe et al.		
	TR-137	WO 99/11658	03/11/99	Liebeschuetz et al.		
	TR-138	WO 99/46244	09/16/99	Jeppesen et al.		
	TR-139	WO 99/65942	12/23/99	Gordon et al.		
	TR-140	WO 00/76971	12/21/00	Jones et al.		
	TR-141	WO 01/26656	04/19/01	Chabrier de Lassauniere et al.		
	TR-142	WO 02/010140	02/07/02	Thurieau et al.		
	TR-143	WO 02/04412	01/17/02	Burgess et al.		
	TR-144	WO 02/04459	01/17/02	Anderson et al.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 19 of 20

Complete if Known	
Application Number	10/777,42~~6~~ 431
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unkown
Attorney Docket Number	TTP 2002-07

U.S. PATENT DOCUMENTS

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	TR-145	WO 03/020688	03/13/03	Liu et al.		
	TR-146	WO 03/033496	04/24/03	Mjalli et al.		
	TR-147	WO 03/041729	05/22/03	Zhang et al.		
	TR-148	WO 03/048140	06/12/03	Inaba et al.		
	TR-149	WO 03/064376	08/07/03	Swinnen et al.		
	TR-150	WO 03/072537	09/04/03	Szezepanklewicz et al.		
	TR-151	WO 03/073987	09/12/03	Barr et al.		
	TR-152	WO 03/082841	10/09/03	Coppola et al.		
	TR-153	WO 03/092679	11/13/03	Groneberg et al.		

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Sheet 20 of 20

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Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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	TR-154	WO 03/093498	11/13/03	Pei et al.		
	TR-155	WO 04/014415	02/19/04	Zheng et al.		
	TR-156	WO 04/020466	03/11/04	Hooft et al.		
	TR-157	WO 04/041799	05/21/04	Birch et al.		
	TR-158	WO 04/050646	06/17/04	Kenny et al.		
	TR-159	WO 04/071447	08/26/04	Mjalli et al.		
	TR-160	WO 04/071448	08/26/04	Mjalli et al.		
	TR-161	WO 04/074238	09/02/04	Gray et al.		
	TR-162	WO 04/074256	09/02/04	Klopfenstein et al.		

Examiner Signature		Date Considered	

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